

**AMENDMENTS TO THE CLAIMS**

1. (Canceled)

21. (Currently Amended) An isolated nucleic acid consisting of X nucleotides wherein the sequence of the nucleic acid comprises:

- (a) Y consecutive nucleotides of SEQ ID NO[[S]]: ~~128, 131, or 133~~477;
- (b) an RNA equivalent of (a);
- (c) a sequence at least ~~67.7~~83.3% identical to (a) or (b); or
- (d) the complement of any one of (a)-(c),

wherein

X=18 to 120,

Y≥18, and

X≥Y.

22. - 40 (Canceled)

41. (New) The nucleic acid of claim 21, wherein the nucleic acid comprises SEQ ID NO: 477.

42. (New) The nucleic acid of claim 21, wherein the nucleic acid comprises SEQ ID NO: 128.

43. (New) The nucleic acid of claim 21, wherein X=Y.

44. (New) A vector comprising the nucleic acid of any one of claims 21 and 41-43.

45. (New) An isolated nucleic acid consisting of X nucleotides wherein the sequence of the nucleic acid comprises:

- (a) Y consecutive nucleotides of SEQ ID NO: 477;
- (b) an RNA equivalent of (a);
- (c) a sequence at least 75.0% identical to (a) or (b); or
- (d) the complement of any one of (a)-(c),

wherein

X=21 to 120,

Y≥21, and

X≥Y.

46. (New) The nucleic acid of claim 45, wherein X=Y.

47. (New) A vector comprising the nucleic acid of claim 45 or 46.

48. (New) An isolated nucleic acid consisting of X nucleotides wherein the sequence of the nucleic acid comprises:

- (a) Y consecutive nucleotides of SEQ ID NO: 480;
- (b) an RNA equivalent of (a);

- (c) a sequence at least 91.6% identical to (a) or (b); or
- (d) the complement of any one of (a)-(c),

wherein

X=18 to 120,

Y≥18, and

X≥Y.

49. (New) The nucleic acid of claim 48, wherein the nucleic acid comprises SEQ ID NO: 480.

50. (New) The nucleic acid of claim 48, wherein the nucleic acid comprises SEQ ID NO: 131.

51. (New) The nucleic acid of claim 48, wherein X=Y.

52. (New) A vector comprising the nucleic acid of any one of claims 48-51.

53. (New) An isolated nucleic acid consisting of X nucleotides wherein the sequence of the nucleic acid comprises:

- (a) Y consecutive nucleotides of SEQ ID NO: 480;
- (b) an RNA equivalent of (a);
- (c) a sequence at least 83.3% identical to (a) or (b); or
- (d) the complement of any one of (a)-(c),

wherein

X=19 to 120,

Y≥19, and

X≥Y.

54. (New) The nucleic acid of claim 53, wherein X=Y.

55. (New) A vector comprising the nucleic acid of claim 53 or 54.

56. (New) An isolated nucleic acid consisting of X nucleotides wherein the sequence of the nucleic acid comprises:

- (a) Y consecutive nucleotides of SEQ ID NO: 482;
- (b) an RNA equivalent of (a);
- (c) a sequence at least 83.3% identical to (a) or (b); or
- (d) the complement of any one of (a)-(c),

wherein

X=20 to 120,

Y≥20, and

X≥Y.

57. (New) The nucleic acid of claim 56, wherein the nucleic acid comprises SEQ ID NO: 482.

58. (New) The nucleic acid of claim 56, wherein the nucleic acid comprises SEQ ID NO: 133.

59. (New) The nucleic acid of claim 56, wherein  $X=Y$ .

60. (New) A vector comprising the nucleic acid of any one of claims 56-59.

61. (New) An isolated nucleic acid consisting of  $X$  nucleotides wherein the sequence of the nucleic acid comprises:

- (a)  $Y$  consecutive nucleotides of SEQ ID NO: 482;
- (b) an RNA equivalent of (a);
- (c) a sequence at least 75.0% identical to (a) or (b); or
- (d) the complement of any one of (a)-(c),

wherein

$X=22$  to 120,

$Y \geq 22$ , and

$X \geq Y$ .

62. (New) The nucleic acid of claim 61, wherein  $X=Y$ .

63. (New) A vector comprising the nucleic acid of claim 61 or 62.